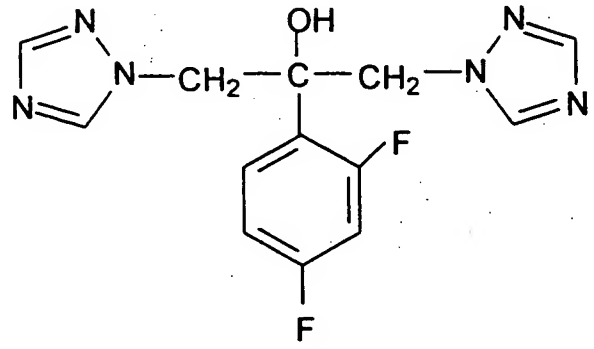
CLAIM AMENDMENTS

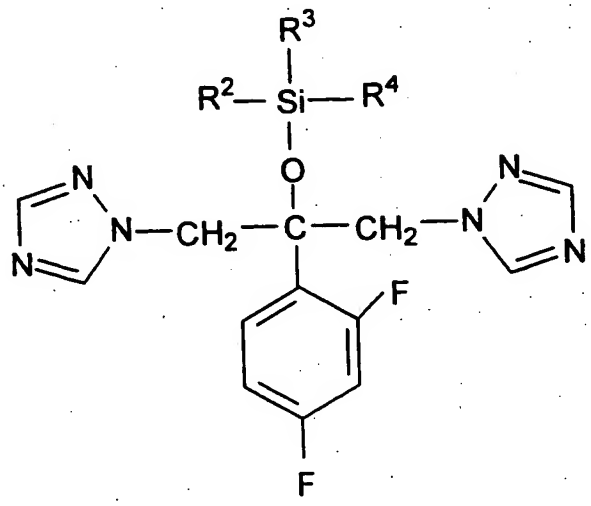
1. (Previously presented) A process for the synthesis of monohydrate and crystal modifications of fluconazole of formula (I)



(I)

comprising the steps of:

a.) hydrolyzing a silyl ether derivative of formula (II)



(II)

- wherein the meaning of R^2 is hydrogen, or a C_1-C_{10} alkyl or phenyl group, R^3 and R^4 independently of each other are a C_1-C_{10} alkyl or phenyl group - at a pH preferably either below 3 or above 8 in an aqueous solution,

then cooling the obtained reaction mixture containing the fluconazole of formula (I) and isolating the precipitated fluconazole monohydrate and optionally

dissolving the fluconazole monohydrate obtained from the hydrolysis of silyl-fluconazole in a C_1-C_4 straight or branched chain alcohol at boiling temperature and cooling the solution with a speed of 5-15 °C/h to obtain the crystal modification II of fluconazole, or

b.) dissolving anhydrous fluconazole or monohydrate of it in a C_1-C_4 straight or branched chain alcohol at boiling temperature and cooling the solution with a speed of 5-15 °C/h to obtain the crystal modification II of fluconazole, or

c.) drying slowly fluconazole monohydrate after seeding preferably with seeding crystals of crystal modification II at 30-70 °C, preferably in vacuum to obtain the crystal modification II of fluconazole, or

d.) drying fast fluconazole monohydrate after seeding preferably with seeding crystals of crystal modification I at 80 °C, to obtain the crystal modification I of fluconazole.

2. (Previously presented) The process according to claim 1, characterized by carrying out the hydrolysis of silyl ether derivatives of formula (II) - wherein the meaning of R^2, R^3 and R^4 is as defined in claim 1 - in aqueous methanolic solution in the presence of sodium hydroxide.

3. (Previously presented) The process according to claim 1, characterized by carrying out the hydrolysis of silyl ether derivatives of formula (II) - wherein the meaning of R^2, R^3 and R^4 is as defined in claim 1 - in aqueous sodium hydroxide solution.

4. (Previously presented) The process according to claim 1, c h a r a c t e r i z e d b y using a silyl ether derivative of formula (II), wherein R^2, R^3 and R^4 are methyl groups, as starting material.

5. (Previously presented) The process according to claim 1 for the synthesis of crystal modification II of fluconazole, c h a r a c t e r i z e d b y cooling the solution of anhydrous fluconazole or monohydrate of it in isopropanol obtained at boiling temperature with a speed of 10 °C/h.

6. (Previously presented) The process according to claim 1 for the synthesis of crystal modification II of fluconazole, c h a r a c t e r i z e d b y cooling the solution of anhydrous fluconazole or monohydrate of it in ethanol obtained at boiling temperature with a speed of 10 °C/h.

7. (Previously presented) The process according to claim 1 for the synthesis of crystal modification II of fluconazole, c h a r a c t e r i z e d b y cooling the solution of anhydrous fluconazole or monohydrate of it in sec-butanol obtained at boiling temperature with a speed of 10 °C/h.

8. (Previously presented) The process according to claim 5 c h a r a c t e r i z e d b y cooling the solutions to 0 °C.

9. (Previously presented) The process according to claim 1 for the synthesis of crystal modification II of fluconazole, c h a r a c t e r i z e d b y drying the fluconazole monohydrate in the presence of seeding crystals of crystal modification II with stirring, in vacuum at 40 °C for 2 h, then at 70 °C for 4 h.

10. (Previously presented) The process according to claim 1 for the synthesis of crystal modification I of fluconazole, c h a r a c t e r i z e d b y drying the fluconazole monohydrate in the presence of seeding crystals of crystal modification I with stirring, in vacuum at 80 °C for 4 h until the weight is constant.

11. (New) Fluconazole monohydrate having a melting point of 139° to 140° C prepared by the process defined in claim 1.